

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known Application Number 10/609,012 Filing Date June 27, 2003 First Named Inventor Theo T. Nikiforov Art Unit 1637 Examiner Name Jeffrey Siew <i>Teresa Stnelechia</i> Attorney Docket Number 100/07933	
Sheet		of	

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number - Kind Code (if known)			
T.S	AA	US-5,143,854	09-01-1992	Pirrung et al.	
	AB	✓ US-5,527,688	06-18-1996	Mallia	
	AC	✓ US-5,587,285	12-26-1996	Cloyd et al.	
	AD	✓ US-5,646,001	07-08-1997	Terstappen et al.	
	AE	✓ US-5,665,865	09-9-1997	Lerner et al.	
	AF	✓ US-5,688,648	11-18-1997	Mathies et al.	
	AG	✓ US-5,707,804	01-13-1998	Mathies et al.	
	AH	✓ US-5,728,528	03-17-1998	Mathies et al.	
	AI	✓ US-5,744,305	04-28-1998	Fodor et al.	
	AJ	✓ US-5,747,247	05-05-1998	Kowlacyzkowski et al.	
	AK	✓ US-5,779,868	07-14-1998	Parce et al.	
	AL	✓ US-5,783,687	07-21-1998	Glazer et al.	
	AM	✓ US-5,853,992	12-29-1998	Glazer et al.	
	AN	✓ US-5,858,195	01-12-1999	Ramsey	
	AO	✓ US-5,869,255	02-09-1999	Mathies et al.	
	AP	✓ US-5,885,470	03-23-1999	Parce et al.	
	AQ	✓ US-5,925,558	07-20-1999	Tsien et al.	
	AR	✓ US-6,071,748	06-06-2000	Modlin et al.	
	AS	✓ US-6,087,107	07-11-2000	Sheffield et al.	
	AT	✓ US-6,100,039	08-08-2000	Burke et al.	
	AU	✓ US-6,149,787	11-21-2000	Chow et al.	
	AV	✓ US-6,153,073	11-28-2000	Dubrow et al.	
	AW	✓ US-6,203,994	03-20-2001	Epps et al.	
	AX	✓ US-6,326,142	12-04-2001	Royer	
TS	AY	✓ US-6,503,709	01-07-2003	Bekkaoui et al.	
	AZ	US-09/321,309		Sundberg et al.	
TS	BA	US-2002/0061546	05-23-2002	Tsien et al.	
Examiner Signature	<i>Teresa Stnelechia</i>			Date Considered	<i>12/13/05</i>

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	Art Unit	1637			
	Examiner Name	Jeffrey Siew			
Sheet		of		Attorney Docket Number	100/07933

TS *Tessa Stuckelmaier*

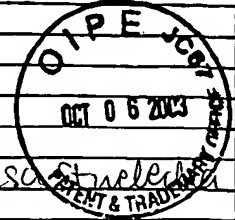
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code - Number - Kind Code (if known)				
<i>TS</i>	<i>✓</i> BB	WO-95/15981	06-15-1995	Univ. Utah		
	<i>✓</i> BC	WO-98/00231	01-08-1998	Caliper		
	<i>✓</i> BD	WO-98/00705	01-08-1998	Caliper		
	<i>✓</i> BE	WO-98/18956	05-07-1998	Panvera		
	<i>✓</i> BF	WO-98/45481	10-15-1998	Caliper		
	<i>✓</i> BG	WO-99/16162	04-01-1999	Caliper		
	<i>✓</i> BH	WO-99/23466	05-14-1999	LJL Biosystems		
	<i>✓</i> BI	WO-00/23785	04-27-2000	LJL Biosystems		
<i>TS</i>	<i>✓</i> BJ	EP-0 781 853	07-02-1997	Eli Lilly Co.		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
TS ✓	BK	ANDERSSON, L. et al., "Isolation of Phosphoproteins by Immobilized Metal(Fe3+) Affinity Chromoatography," Anal Biochem. (1986) 154:250-254	
✓	BL	CHECOVICH, W.J. et al., "Fluorescence Polarization-a New Tool for Cell and Molecular Biology," Nature (1995) 75:254-256	a
✓	BM	CHEN, W. et al., "Fluorescence Polarization in Homogeneous Nucleic Acid Analysis," Genome Res. (1999) 9:492-8 May	
✓	BN	DANDLIKER, B.B. et al., "Quantification of the Antigen-Antibody Reaction by the Polarization of Fluorescence," Biochem Biophys Res Commun. (1961) 5:299-304	a
✓	BO	DANDLIKER, B.B. et al., "Fluorescence Polarization in Immunochemistry," Immunochemistry (1970) 7:799	a
✓	BP	DANDLIKER, B.B. et al., "Fluorescence Polarization Immunoassay. Theory and Experimental Method," Immunochemistry (1973) 10:219	a
✓	BQ	DESHPANDE, S.S. et al., "A Robust, Versatile Tyrosine Kinase Assay for HTS in Drug Discovery," Prog. Biomed. Optics (SPIE) (1999) 3603:251-61	u
✓	BR	DEVLIN, R. et al., "Homogeneous Detection of Nucleic Acids by Transient-State Polarized Fluorescence," Clin. Chem. (1993) 39:1939	i
TS ✓	BS	EGHOLM, M. et al., <u>Nature</u> (1993) 365:566-568	.

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Sheet	of	Examiner Name	Jeffrey Siew-Teresa Stnelechia
		Attorney Docket Number	100/07933

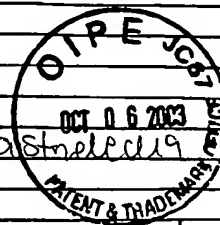


TS	✓ BT	EVETT, J. et al., "DNA-Polylysine Interaction as Studied by Polarization of Fluorescence," Ann. N.Y. Acad. Sci. (1969) 158:210-22	~
	✓ BU	GIBSON, et al., "A Homogeneous Method for Genotyping with Fluorescence Polarization," Clinical Chemistry (1997) 43:1336-41	
	✓ BV	GINGERAS, T.R. et al., "A Spectrofluorometric Method for Measurement of Restriction Endonuclease Activity Based on Fluorescence Polarization," J. Cell. Biochem. Suppl. (1992) Suppl. 17 Part C, p. 173	~
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	✓ BY	ICHIMURA, S. et al., "The Interaction of 8-Anilino-1-Naphthalanesulfonate with Polylysine and Polyarginine," Biopolymers (1977) 16:1449-64	
	✓ BZ	JISKOOT, W. et al., "Preparation and Application of a Fluorescein-labeled Peptide for Determining the Affinity Constant of a Monoclonal Antibody-Hapten Complex by Fluorescence Polarization," Anal. Biochem. (1991) 196:421	°
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	✓ CC	JORDEN, R.M. et al., "Colloid Charge Capacity-Its Measurement, Problems and Promise," Chemical Water and Wastewater Treatment IV (1997) 121-35	
	✓ CD	KUMKE, M.U. et al., "Hybridization of Fluorescein-Labeled DNA Oligomers Detected by Fluorescence Anisotropy with Protein Binding Enhancement," Anal. Chem. (1995) 67:3945-51	
	✓ CE	LAURENCE, D.J.R., "A Study of the Adsorption of Dyes on Bovine Serum Albumin by the Method of Polarization of Fluorescence," Biomechanical Journal (1952) 51:165-77 "	
	✓ CF	LEVINE, L.M. et al., Anal. Biochem. (1997) 247:83-88	
	✓ CG	LEVISON, S.A. et al., "Fluorescence Polarization Measurement of the Hormone-Binding Site Interaction," Endocrinology (1976) 99:1129	~
	✓ CH	LUNDBLAD, J.R., et al., "Fluorescence Polarization Analysis of Protein-DNA and Protein-Protein Interactions," Molecular Endocrinology (1996) 10:607-612	~
TS	✓ CI	LYNCH, B.A. et al., "A Fluorescence Polarization Based Src-SH2 Binding Assay," Analytical Biochemistry (1997) 247:77-82	

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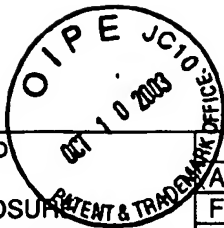
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Examiner Name	Jeffrey Siew	Teresa Stueleda			
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TS	✓	CJ	MURAKAMI, A. et al., "Nucl. Acids Res. (1991) 19:4097-4102	
	✓	CK	OWICKI, J.C. et al., "Application of Fluorescence Polarization Assays in High-Throughput Screening," Genetic Engineering News (1997)	
	✓	CL	OZERS, M.S. et al., "Equilibrium Binding of Estrogen Receptor with DNA Using Fluorescence Anisotropy," J. Biol. Chem. (1997) 272:30405-11	
	✓	CM	SCHADE, S.Z. et al., "BODIPY-a-Casein, a pH-Independent Protein Substrate for Protease Assays Using Fluorescence Polarization," Analytical Biochemistry (1996) 243:1-7	
	✓	CN	SMALLSHAW, J.C. et al., "Determination of the Binding Constants for Three HPr-Specific Monoclonal Antibodies and Their Fab Fragments," Mol. Biol. (1998) 280:765-74	
	✓	CO	TANHA, J. et al., "Thermodynamic Analysis of Monoclonal Antibody Binding to Duplex DNA," Nucleic Acids Research (1997) 25:1442-49	
	✓	CP	TYAGI, S. et al., Nature Biotech, (1996), 14:303-308	
	✓	CQ	TYAGI, S. et al., Nature Biotech, (1998), 16:49-53	
	✓	CR	WALKER, G.T. et al., "Strand Displacement Amplification (SDA) and Transient-State Fluorescence Polarization Detection of Mycobacterium Tuberculosis DNA," Clinical Chemistry (1996) 42:9-13	
	✓	CS	WALKER, G.T. et al., Nucl. Acids Res. (1996), 24(2):34-353- 348-353	
	✓	CT	WEBER, G. "Rotational Brownian Motion and Polarization of the Fluorescence of Solutions," Adv. Protein Chem. (1953) 8:415	
	✓	CU	WEI, A. et al., "Use of Synthetic Peptides as Tracer Antigens in Fluorescence Polarization Immunoassays of High Molecular Weight Analytes," Anal. Chem. (1993) 65:3372	
	✓	CV	WILKINSON, D. "Tyr'd and True: Immunochemical Reagents and Kits for Studying Tyrosine Phosphorylation," The Scientist (1999) pp. 13-21	
	✓	CW	WU, P. et al., "A High-Throughput STAT Binding Assay Using Fluorescence Polarization," Anal. Biochem. (1997) 249:29-36	
TS		CX	PanVera Corporation "Fluorescence Polarization Applications Guide", Madison, WI	

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(Modified) PTO/SB/08A (10-01)
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		Number - Kind Code (if known)			
TS	AA ✓	5,804,395	09-08-1998	Schade et al.	
	AB ✓	6,287,774	09-11-2001	Nikiforov	
	AC ✓	6,436,646	08-20-2002	Nikiforov	
TS	AD ✓	6,472,141	10-29-2002	Nikiforov	

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		Country Code - Number - Kind Code (if known)				
TS ✓	AE ✓	WO-9412665	06-09-1994	R-P Technologies		
TS ✓	AF ✓	WO-9964840	07-07-1999	Caliper		
	AG	WO-0023785	04-27-2000	LJL Biosystems	duplicate	
	AH	EP-781-853	07-02-1997	Eli Lilly Co.	duplicate	
TS ✓	AI ✓	EP-786 666	07-30-1997	Hoffman La Roche		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
TS	✓ AJ	COFFIN, J. et al., "Detection of Phosphopeptides by Fluorescence Polarization in the Presence of Cationic Polyamino Acids: Application to Kinase Assays" <u>Anal. Biochem.</u> (2000) 278:206-212		
	✓ AK	ERICKSON, A.C. et al., "Metal (Fe3+) Affinity Chromatography: Differential Adsorption of Tau Phosphoproteins" <u>J. Neurosci. Methods</u> (1993) 46:245-249		
	✓ AL	MUSCZYNSKA, G. et al., "Selective Adsorption of Phosphoproteins on Gel-Immobilized Ferric Chelate" <u>Biochemistry</u> (1986) 25:6850-6853		
	✓ AM	NIKIFOROV, THEO T. et al., "Detection of Hybrid Formation between Peptide Nucleic Acids and DNA by Fluorescence Polarization in the Presence of Polylysine" <u>Anal. Biochem.</u> (1999) 275:248-253		
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TS	AP	SEETHALA, R. et al., "A Fluorescence Polarization Competition Immunoassay for Tyrosine Kinases" <u>Anal. Biochem.</u> (1998) 255:257-262	
TS	AQ	URIOS, P. et al., "Adaptation of Fluorescence Polarization Immunoassay to the Assay of Macromolecules" <u>Anal. Biochem.</u> (1990) 185:308-312	
	AR	Molecular Devices Corporation's redacted version of its Opposition to Caliper's Motion for Preliminary Injunction in pending litigation US Civil Case No. C-02-1837 (CRB) and supporting declaration by Andrew R. Barron and Richard Sportsman	✓
	AS	Claim Construction Order, US District Court, Northern District of California, Case No. C 02-01837, September 3, 2003	✓

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PTO/SB/08B (08-03)

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		Art Unit	1645		
		Examiner Name	Unknown <i>Teresa Stueckler</i>		
Sheet	1	of	1	Attorney Docket Number	100/07933

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>CA</i>		SEETHALA, Ramakrishna, et al., "A Homogenous Fluorescence Polarization Assay for Src Family Tyrosine Kinases," Anal. Chem., Vol. 253, 11/15/1997, pgs. 210-218. <i>duplicate</i>	
<i>CB</i>		SEETHALA, Ramakrishna, et al., "A Fluorescence Polarization Competition Immunoassay for Tyrosine Kinases," Anal. Chem., Vol. 255, 1/15/1998, pgs. 257-262. <i>duplicate</i>	

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